

CLAIMS

1. Protected alcohol with formula (1)



wherein  $R^1$  represents a linear, straight-chain alkyl group having 26-30 C-atoms,  $m$  is 1 or 2, and PG represents a protecting group chosen from the group of substituted methyl ethers, substituted ethyl ethers, substituted benzyl ethers and (substituted) silyl ethers with at least one substituent on the Si-atom being not a methyl group, in case  $m = 1$ ; and a diol protecting group in case  $m = 2$ , with the proviso that PG is no saccharide.

2. Process for the preparation of a protected alcohol according formula (1)



wherein  $R^1$  represents a linear, straight-chain alkyl group having 26-30 C-atoms,  $m$  is 1 or 2, and PG represents a protecting group chosen from the group of substituted methyl ethers, (substituted) ethyl ethers, (substituted) benzyl ethers and (substituted) silyl ethers with at least one substituent on the Si-atom being not a methyl group, in case  $m = 1$ ; and a diol protecting group in case  $m = 2$ , with the proviso that PG is no saccharide, via an organometallic cross coupling reaction wherein a linear, straight-chain nucleophilic organometallic reagent of formula  $RCH_2M_1$  is reacted with a linear, straight-chain electrophile of formula  $(LG-CH_2-A-O)_m PG$  (or a linear, straight-chain electrophile of formula  $RCH_2-LG$  with a nucleophilic organometallic reagent of formula  $(M_1CH_2-A-O)_m PG$ ), wherein  $R$  is H or a linear, straight-chain alkyl group with 1-28 C-atoms,  $M_1$  represents Li, Na, K,  $BZ_2$ , wherein each Z independently represents OH, an alkyl group or an alkoxy group, or the 2 Z-groups together form a hydrocarbon ring,  $MgX$ , wherein  $X$ =halogen,  $ZnX$ , wherein  $X$ = halogen or  $CH_2Si(CH_3)_3$ , or  $MnX$ , wherein  $X$ =halogen,  $A$  is a  $C_{0-28}$  linear, straight-chain alkylene group,

LG represents a leaving group,  
and m and PG are as described above.

- 5 3. Process according to claim 2, wherein the organometallic cross coupling reaction is performed in the presence of a transition metal catalyst and wherein M<sup>1</sup> represents MgX with X is halogen.
- 10 4. Process according to claim 3, wherein the nucleophilic organometallic reagent reacts with an alkyl halide, alkyl arylsulfonate or alkyl mesylate.
5. Process according to any one of claims 2-4, wherein first the protected alcohol with formula (1) is prepared according to any one of claims 2-4 and subsequently the protected alcohol is subjected to deprotection.